

## ABSTRACT OF THE DISCLOSURE

A system for monitoring statuses such as presence or absence of abnormality and lifetime of a machine component such as, for example, a bearing having rolling elements includes a plurality of determining units 4 each connected with a plurality of sensors 3, and a control means 5 connected with the determining units 4. Each sensor is disposed on the machine component 1 of the associated rolling bearing for detecting an influence signal resulting from passage of the rolling element induced in the machine component 1. Each determining unit 4 determines according a process set-up condition the presence or absence of an abnormality, lifetime and others of the machine component 1 associated with the sensor 3 in reference to an output signal from such sensor 3. The control means 5 collects a result of determination performed by each determining unit 4. In this way, with a simplified structure, monitoring can be achieved at a low cost, precisely and efficiently.